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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,298	01/10/2006	Paulus Cornelis Duineveld	NL 03 0865 US1	7992

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EXAMINER
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REDDY, SATHAVARAM I

ART UNIT	PAPER NUMBER
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1794

MAIL DATE	DELIVERY MODE
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12/17/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/564,298	<b>Applicant(s)</b> DUINEVELD ET AL.	
	<b>Examiner</b> SATHAVARAM REDDY	<b>Art Unit</b> 1794	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. ____.                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>1/10/2006</u> .   | 6) <input type="checkbox"/> Other: ____.                          |

## **DETAILED ACTION**

### ***Information Disclosure Statement***

1. The information disclosure statement (IDS) submitted on 1/10/2006 has a reference with an incorrect publication number US 2002/0041925. It should be US 2002/0041926 instead of US 2002/0041925. US 2002/0041925 has been stricken from the IDS filed 1/10/2006 given that the applicants cited the wrong publication number and 2002/0041926 has been cited on the PTO-892.

### ***Claim Objections***

1. Claims 10, 13 and 15 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim can be dependent on only one set of claims, not more than one set of claims. See MPEP § 608.01(n). In the interest of compact prosecution, the claims are being treated as if they were properly dependent and examined as set forth below.

### ***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 2-6, 8-9 and 11-12 are objected to by 35 U.S.C. 112, second paragraph because of a lack of proper antecedent basis. Claims 2-6 recites the limitation "An arrangement", claims 8-9 recites the limitation "A method", and claims 11-12 recites the limitation "A thin film device". In order for these dependent claims to have proper

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antecedent basis, it is suggested that “An arrangement” in claims 2-6 is changed to “The arrangement”, “A method” in claims 8-9 is changed to “The method”, and “A thin film device” in claims 11-12 is changed to “The thin film device”.

4. Claim 14 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The scope of the claim is confusing given that the claim is drawn to “a method” according to claim 12, however claim 12 is drawn to a thin film device, not a method.

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

**6. Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Miyashita et al (US 2002/0041926).**

Regarding claim 1, Miyashita et al (US 2002/0041926) discloses a thin film patterning arrangement (Fig. 4) comprising a substrate (Fig. 4 #804), barriers (Fig. 4 #805 “banks”) partitioning a surface of a substrate into sub-areas, the surface being of a

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polymeric material (paragraph [0042], lines 5-9; “plastic”) and coated with a partly coated inorganic coating (Fig. 4 #801,802,803 “ITO transparent electrodes”) (paragraph [0175] and paragraph [0176]).

Regarding claim 2, Miyashita et al (US 2002/0041926) discloses the inorganic coating comprising 100% inorganic coating (Fig. 4 #801,802,803 “ITO transparent electrodes”; paragraph [0175]).

Regarding claim 3, Miyashita et al (US 2002/0041926) discloses the inorganic coating comprising 5% inorganic coating (Fig. 4 #801,802,803 “ITO transparent electrodes”; paragraph [0175]).

Regarding claim 4, Miyashita et al (US 2002/0041926) discloses the inorganic coating comprising two separate coating materials (paragraph [0043], “composite film of indium oxide and zinc oxide”).

Regarding claim 5, Miyashita et al (US 2002/0041926) discloses the surface treatment (paragraph [0200]). In regard to the difference in advancing contact angle of at least 10 degrees between an inorganic coating and the barriers, given that Miyashita et al (US 2002/0041926) discloses the thin film patterning arrangement identical to that presently claimed, that is subjected to the same surface treatment as that of the present invention (plasma treatment), it is clear that after such surface treatment a difference in

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advancing contact angle of at least 10 degrees between the surface of the inorganic coating on the surface of the barriers would inherently be established.

Regarding claim 6, Miyashita et al (US 2002/0041926) discloses an inorganic coating more than 70% transparent (Fig. 4 #801,802,803 "ITO transparent electrodes"; paragraph [0175])

Regarding claim 7, Miyashita et al (US 2002/0041926) discloses a method of producing a thin film patterning arrangement comprising supplying a substrate (Fig. 4 #804) with a surface of a polymeric material (paragraph [0042], lines 5-9; "plastic"), coating a substrate with a partly inorganic coating (Fig. 4 #801,802,803 "ITO transparent electrodes"), and depositing barriers on a coated surface (Fig. 4 #805 "banks") (paragraph [0175] and paragraph [0176]).

Regarding claim 8, Miyashita et al (US 2002/0041926) disclose subjecting the inorganic coating and barriers to surface treatment (paragraph [0200]).

Regarding claim 9, Miyashita et al (US 2002/0041926) discloses the surface treatment comprising plasma treatment (paragraph [0200]).

Regarding claim 10, Miyashita et al (US 2002/0041926) discloses a thin film device (organic EL element) comprising the thin film arrangement of claim 1 (Fig. 4) and

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thin film material (Fig. 4 #806, 807, 808) deposited onto the sub-areas (paragraph [0175], paragraph [0176]).

Regarding claim 11, Miyashita et al (US 2002/0041926) discloses the thin film device comprising an optical pattern (paragraph [0002]; paragraph [0007], lines 1-5; and paragraph [0024]). An optical pattern is a pattern where emission of light is used to emit another kind of light.

Regarding claim 12, Miyashita et al (US 2002/0041926) disclose the thin film pattern as an optical pattern and the device being a color filter. Given that Miyashita et al (US 2002/0041926) discloses the pattern is an optical pattern in that it uses emission of light, it is clear that Miyashita et al (US 2002/0041926) would inherently emit the light as color luminescence using luminescent layers (paragraph [0002]; paragraph [0007], lines 1-5; and paragraph [0024]).

Regarding claim 13, Miyashita et al (US 2002/0041926) discloses a method of producing a thin film device comprising providing a thin film patterning arrangement (Fig. 4) and depositing thin film material (Fig. 4 #806, 807, 808) onto the sub-areas (paragraph [0175], paragraph [0176]).

Regarding claim 14, Miyashita et al (US 2002/0041926) discloses a method of depositing a thin film material (Fig. 4 #806, 807, 808) comprising ink jet printing of a liquid comprising the thin film material (paragraph [0176]).

Regarding claim 15, Miyashita et al (US 2002/0041926) discloses a display device comprising the thin film arrangement of claim 1, the thin film pattern arrangement obtained by claim 7, a thin film device of claim 10 and a thin film device obtained by claim 13 (paragraph [0024]; paragraph [0175]; paragraph [0176]; paragraph [0002]; paragraph [0007], lines 1-5).

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SATHAVARAM REDDY whose telephone number is (571) 270-7061. The examiner can normally be reached on 8:00 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Callie Shosho can be reached on (571) 272-1123. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SIR

/Callie E. Shosho/  
Supervisory Patent Examiner, Art Unit 1794